STIC Search Report
EIC 2600

STIC Database Tracking Number: 129548

TO: Shafiu Elahee
Location: CPK2 8C12
Art Unit: 2645
Wednesday, August 11, 2004

Case Serial Number: 09924306

From: Pamela Reynolds
Location: EIC 2600
PK2-3C03
Phone: 306-0255

Pamela.Reynolds@uspto.gov

Search Notes

Dear Shafiul Alam Elahee

Please find attached the search results for I used the search strategy I emailed to you to edit, not hearing from you I proceeded. I searched the standard Dialog files, IEEE, and the internet.

If you would like a re-focus please let me know.

Thank you.

(6)

Access DB# 12954

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Shafiul Alam Examiner #: 79796 Date: 8/10/04
Art Unit: 2643 Phone Number 30 Serial Number: 09/924,306
Location: PK2 8C12 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

10/1/04

See Attached 8-10-04

****

STAFF USE ONLY

Searcher: Pamela Reynolds
Searcher Phone #: 306-0255
Searcher Location: PK2 3C03
Date Searcher Picked Up: 8-11-04 10:50
Date Completed: 8-11-04 2:00
Searcher Prep & Review Time: 1W
Clerical Prep Time: _____
Online Time: 80

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) _____
Bibliographic ✓
Litigation _____
Fulltext ✓
Patent Family _____
Other _____

Vendors and cost where applicable

STN _____
Dialog ✓
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet ✓
Other (specify) ✓

the appropriate serial number.
- *For Foreign Patent Family Searches Only*
  Include the country name and patent number.
- Provide examples or give us relevant citations, authors, etc., if known.
- FAX or send the **abstract, pertinent claims** (not all of the claims), **drawings, or chemical structures** to your EIC or branch library.

Enter your Search Topic Information below:

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inquir$4 with (scan$4 near2 inquir$4)
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page or page

Special Instructions and Other Comments:
(For fastest service, let us know the best times to contact you, in case the searcher needs further clarification on your search.)

```
2pm to 3pm
```

Press ALT + F, then P to print this screen for your own information.

SEND RESET

```
File   2:INSPEC 1969-2004/Aug W1
         (c) 2004 Institution of Electrical Engineers
File   6:NTIS 1964-2004/Aug W2
         (c) 2004 NTIS, Intl Cpyrght All Rights Res
File   8:Ei Compendex(R) 1970-2004/Aug W1
         (c) 2004 Elsevier Eng.  Info. Inc.
File  34:SciSearch(R) Cited Ref Sci 1990-2004/Aug W1
         (c) 2004 Inst for Sci Info
File  35:Dissertation Abs Online 1861-2004/May
         (c) 2004 ProQuest Info&Learning
File  65:Inside Conferences 1993-2004/Aug W2
         (c) 2004 BLDSC all rts. reserv.
File  94:JICST-EPlus 1985-2004/Jul W3
         (c)2004 Japan Science and Tech Corp(JST)
File  95:TEME-Technology & Management 1989-2004/Jun W1
         (c) 2004 FIZ TECHNIK
File  99:Wilson Appl. Sci & Tech Abs 1983-2004/Jul
         (c) 2004 The HW Wilson Co.
File 144:Pascal 1973-2004/Aug W1
         (c) 2004 INIST/CNRS
File 233:Internet & Personal Comp. Abs. 1981-2003/Sep
         (c) 2003 EBSCO Pub.
File 239:Mathsci 1940-2004/Sep
         (c) 2004 American Mathematical Society
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
         (c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2004/Aug 06
         (c) 2004 ProQuest Info&Learning

Set     Items   Description
S1     126959   (MOBILE OR REMOTE OR WIRELESS OR CELLULAR)(3N)(UNIT? OR DE-
             VICE? ? OR APPARATUS OR TERMINAL OR PHONE? OR TELEPHONE?)
S2      45988   PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE
              OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD)()(COMPUTE-
             R? OR DEVICE?) OR PALM(2N)PILOT
S3       4730   CELLPHONE? OR POCKETPC
S4         22   INQUIRY()(SCAN OR SCANS OR SCANNING)
S5       2599   (PAGE OR PAGING) AND (SCAN OR SCANS OR SCANNING)
S6     806856   ADDRESS? OR IAC OR DAC OR DEVICE()ACCESS()CODE?? OR INQUIR-
             Y()ACCESS()CODE? OR ACCESS()CODE??
S7      83041   (SEEK? OR SEARCH? OR LOOK? OR TRACK? OR HUNT? OR DISCOVER?)
              AND S6
S8         80   PEER(1N)PEER AND (S1 OR S2) AND CONNECT?
S9       6833   BLUETOOTH    (January 2003)
S10        21   AU=(HILLYARD, J? OR HILLYARD J?)
S11        18   S4 AND S5
S12        18   S11 AND (S1 OR S2 OR S3 OR S9)
S13         8   RD S12 (unique items)
S14         0   S7 AND S8
S15        11   PERFORM? AND S4 AND (PAGE OR PAGING)
S16        18   S4 AND (PAGE OR PAGING)
S17         0   S16 NOT S11
S18         0   S10 AND (S1 OR S2 OR S3 OR S9)
S19        18   S15 OR S16
S20         8   RD S19 (unique items)
S21         0   S20 NOT S13
```

13/3,K/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

6866644 INSPEC Abstract Number: B2001-04-6250-039
Title: Performance of simple timing synchronization and DC-offset compensation schemes for a short-ranged Bluetooth **network**
Author(s): Young-Hwan You; Cheol-Hee Park; Min-Chul Ju; Jong-Ho Paik; Jin-Woong Cho; Hyoung-Kyu Song
Author Affiliation: Syst. IC Res. Center, Korea Electron. Technol. Inst., South Korea
Conference Title: 11th IEEE International Symposium on Personal Indoor and Mobile Radio Communications. PIMRC 2000. Proceedings (Cat. No.00TH8525) Part vol.2 p.1320-4 vol.2
Publisher: IEEE, Piscataway, NJ, USA
Publication Date: 2000 Country of Publication: USA 2 vol.xxxii+1603 pp.
ISBN: 0 7803 6463 5 Material Identity Number: XX-2000-02460
U.S. Copyright Clearance Center Code: 0 7803 6463 5/2000/$10.00
Conference Title: Proceedings of 11th International Symposium on Personal, Indoor and Mobile Radio Communication
Conference Sponsor: King's College London; IEEE Networking the World; IEEE Commun. Soc.; IEE; BT; ACM; vodafone; Ericsson; Mobile VCE; southern poro commun.; NOKIA; Lucent Technol.; TOSHIBA; MOTOROLA; SIEMENS; SONY; WFI
Conference Date: 18-21 Sept. 2000 Conference Location: London, UK
Language: English
Subfile: B

Title: Performance of simple timing synchronization and DC-offset compensation schemes for a short-ranged Bluetooth **network**
...Abstract: describes an adaptive timing synchronization scheme and DC-offset compensation technique for a short-ranged **Bluetooth** system. The synchronization scheme estimates the variance of the partial-band interference, which is utilized for the trigger threshold value of the **inquiry scan** and **page scan** states, while DC-offset compensation scheme is designed using the access codes which are known to each **Bluetooth** device. Numerical results show the proposed synchronization algorithm is robust to the partial-band noise...
...Identifiers: short-ranged **Bluetooth** network...

... **inquiry scan** ; ...

... **page scan** ;

13/3,K/2 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC

6830692 INSPEC Abstract Number: B2001-03-6250-027
Title: Detection performance of simple timing synchronization schemes for frequency-hopped Bluetooth **networks**
Author(s): Young-Hwan You; Min-Chul Ju; Cheol-Hee Park; Jong-Ho Paik; Jin-Woong Cho; Hyoung-Kyu Song
Author Affiliation: Syst. IC Res. Center, Korea Electron. Technol. Inst., South Korea
Journal: IEICE Transactions on Communications vol.E83-B, no.11 p. 2556-61
Publisher: Inst. Electron. Inf. & Commun. Eng,

Publication Date: Nov. 2000 Country of Publication: Japan
CODEN: ITCMEZ ISSN: 0916-8516
SICI: 0916-8516(200011)E83B:11L.2556:DPST;1-M
Material Identity Number: P711-2000-012
Language: English
Subfile: B

Title: Detection performance of simple timing synchronization schemes for frequency-hopped Bluetooth **networks**
Abstract: This letter describes two adaptive timing synchronization schemes for a short-ranged **Bluetooth** system in partial-band noise environments. One estimates the variance of the partial-band interference, which is utilized for the trigger threshold value of the **inquiry scan** and **page scan** states, while the second is designed using the scaled partial correlation value for the connection...
...Identifiers: frequency-hopped **Bluetooth** networks...

...short-ranged **Bluetooth** system...

... **inquiry scan** state...

... **page scan** state

13/3,K/3 (Item 3 from file: 2)
DIALOG(R)File 2:INSPEC

6766310 INSPEC Abstract Number: B2001-01-6250F-012
Title: Adaptive timing synchronization schemes for a short-ranged Bluetooth **system**
Author(s): Young-Hwan You; Min-Chul Ju; Jong-Ho Paik; Jin-Woong Cho; Hyoung-Kyu Song
Author Affiliation: Syst. IC Res. Center, Korea Electron. Technol. Inst., South Korea
Journal: IEEE Transactions on Consumer Electronics Conference Title: IEEE Trans. Consum. Electron. (USA) vol.46, no.3 p.690-6
Publisher: IEEE,
Publication Date: Aug. 2000 Country of Publication: USA
CODEN: ITCEDA ISSN: 0098-3063
SICI: 0098-3063(200008)46:3L.690:ATSS;1-E
Material Identity Number: I273-2000-003
U.S. Copyright Clearance Center Code: 0098-3063/2000/$10.00
Conference Title: 2000 Digest of Technical Papers. International Conference on Consumer Electronics. Nineteenth in the Series
Conference Sponsor: Consumer Electron. Soc
Conference Date: 13-15 June 2000 Conference Location: Los Angles, CA, USA
Language: English
Subfile: B

Title: Adaptive timing synchronization schemes for a short-ranged Bluetooth **system**
Abstract: This paper describes two adaptive timing synchronization schemes for a short-ranged **Bluetooth** system in the partial-band noise environments. One estimates the variance of the partial-band interference, which is utilized for the trigger threshold value of the **inquiry scan** and **page scan** states, while second is designed using the scaled

partial correlation value for the connection state...
...Identifiers: short-ranged **Bluetooth** system...

... **inquiry scan** state...

... **page scan** state...

...frequency-hopped **Bluetooth** system

13/3,K/4 (Item 4 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2004 Institution of Electrical Engineers. All rts. reserv.

6722170 INSPEC Abstract Number: B2000-11-6250F-103
Title: Adaptive timing synchronization scheme for a short-ranged Bluetooth **network**
Author(s): Young-Hwan You; Min-Chul Ju; Cheol-Hee Park; Jong-Ho Paik; Hyoung-Kyu Song
Author Affiliation: Syst. IC Res. Center, Korea Electron. Technol. Inst., South Korea
Conference Title: 2000 Digest of Technical Papers. International Conference on Consumer Electronics. Nineteenth in the Series (Cat. No.00CH37102) p.304-5
Publisher: IEEE, Piscataway, NJ, USA
Publication Date: 2000 Country of Publication: USA 414 pp.
ISBN: 0 7803 6301 9 Material Identity Number: XX-2000-01563
U.S. Copyright Clearance Center Code: 0 7803 6301 9/2000/$10.00
Conference Title: 2000 Digest of Technical Papers. International Conference on Consumer Electronics. Nineteenth in the Series
Conference Sponsor: Consumer Electron. Soc
Conference Date: 13-15 June 2000 Conference Location: Los Angles, CA, USA
Language: English
Subfile: B

Title: Adaptive timing synchronization scheme for a short-ranged Bluetooth **network**
Abstract: This paper describes an adaptive timing synchronization scheme of a short-ranged **Bluetooth** system in the partial-band noise environments. The variance of the partial-band interference is estimated and is utilized for the trigger threshold value of the **inquiry scan** and **page scan** states. Numerical results show the proposed synchronization algorithm is robust to the partial-band noise...
Identifiers: short-ranged **Bluetooth** network...

... **inquiry scan** state...

... **page scan** state

13/3,K/5 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2004 Elsevier Eng. Info. Inc. All rts. reserv.

05846599 E.I. No: EIP01276565790
Title: Performance of simple timing synchronization and DC-offset: Compensation schemes for a short-ranged Bluetooth **network**
Author: You, Y.-H.; Park, C.-H.; Ju, M.-C.; Paik, J.-H.; Cho, J.-W.;

Song, H.-K.
Conference Title: 11th IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2000)
Conference Location: London, United Kingdom Conference Date: 20000918-20000921
E.I. Conference No.: 58186
Source: IEEE International Symposium on Personal, Indoor and Mobile Radio Communications, PIMRC v 2 2000. p 1320-1324 (IEEE cat n 00TH8525)
Publication Year: 2000
Language: English

Title: Performance of simple timing synchronization and DC-offset: Compensation schemes for a short-ranged Bluetooth **network**
...Abstract: describes an adaptive timing synchronization scheme and DC-offset compensation technique for a short-ranged **Bluetooth** system. The synchronization scheme estimates the variance of the partial-band interference, which is utilized for the trigger threshold value of the **inquiry scan** and **page scan** states, while DC-offset compensation scheme is designed using the access codes which are known to each **Bluetooth** device. Numerical results show the proposed synchronization algorithm is robust to the partial-band noise...
Identifiers: **Bluetooth** networks

13/3,K/6 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05761399 E.I. No: EIP01015478201
Title: Detection performance of simple timing synchronization schemes for frequency-hopped bluetooth **networks**
Author: You, Young-Hwan; Ju, Min-Chul; Park, Cheol-Hee; Paik, Jong-Ho; Cho, Jin-Woong; Song, Hyoung-Kyu
Corporate Source: Korea Electronics Technology Inst (KETI)
Source: IEICE Transactions on Communications v E83-B n 11 Nov 2000. p 2556-2561
Publication Year: 2000
CODEN: ITRCEC ISSN: 0916-8516
Language: English

Title: Detection performance of simple timing synchronization schemes for frequency-hopped bluetooth **networks**
Abstract: This letter describes two adaptive timing synchronization schemes for a short-ranged **Bluetooth** system in the partial-band noise environments. One estimates the variance of the partial-band interference, which is utilized for the trigger threshold value of the **inquiry scan** and **page scan** states, while second is designed using the scaled partial correlation value for the connection state...
Identifiers: Adaptive timing synchronization; Frequency hopped **bluetooth** networks; Partial band interference; Trigger threshold; Synchronization algorithms; Forward error correction

13/3,K/7 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05691568 E.I. No: EIP00115390801
Title: Adaptive timing synchronization schemes for a short-ranged Bluetooth **system**

Author: You, Young-Hwan; Ju, Min-Chul; Paik, Jong-Ho; Cho, Jin-Woong; Song, Hyoung-Kyu
Corporate Source: Korea Electronics Technology Inst, South Korea
Source: IEEE Transactions on Consumer Electronics v 46 n 3 Aug 2000. p 690-696
Publication Year: 2000
CODEN: ITCEDA ISSN: 0098-3063
Language: English

Title: Adaptive timing synchronization schemes for a short-ranged Bluetooth **system**
Abstract: This paper describes two adaptive timing synchronization schemes for a short-ranged **Bluetooth** system in the partialband noise environments. One estimates the variance of the partial-band interference, which is utilized for the trigger threshold value of the **inquiry scan** and **page scan** states, while second is designed using the scaled partial correlation value for the connection state...

13/3,K/8 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05654860 E.I. No: EIP00095336738
Title: Adaptive timing synchronization scheme for a short-ranged bluetooth **network**
Author: You, Young-Hwan; Ju, Min-Chul; Park, Cheol-Hee; Paik, Jong-Ho; Song, Hyoung-Kyu
Corporate Source: Korea Electronics Technology Inst (KETI), S Korea
Conference Title: ICCE 2000 - International Conference on Consumer Electronics
Conference Location: Los Angeles, CA, USA Conference Date: 19000613-19000615
E.I. Conference No.: 57276
Source: Digest of Technical Papers - IEEE International Conference on Consumer Electronics 2000. IEEE, Piscataway, NJ, USA. p 304-305
Publication Year: 2000
CODEN: DTPEEL ISSN: 0747-668X
Language: English

Title: Adaptive timing synchronization scheme for a short-ranged bluetooth **network**
Abstract: This paper describes an adaptive timing synchronization scheme of a short-ranged **Bluetooth** system in the partial-band noise environments. The variance of the partial-band interference is estimated and is utilized for the trigger threshold value of the **inquiry scan** and **page scan** states. Numerical results show the proposed synchronization algorithm is robust to the partial-band noise...
Identifiers: Adaptive timing synchronization scheme; Short ranged **Bluetooth** network; Partial band interference; Additive Gaussian noise
?

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File 344:Chinese Patents Abs Aug 1985-2004/May
         (c) 2004 European Patent Office
File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)
         (c) 2004 JPO & JAPIO
File 350:Derwent WPIX 1963-2004/UD,UM &UP=200451
         (c) 2004  Thomson Derwent

Set     Items   Description
S1     180990   (MOBILE OR REMOTE OR WIRELESS OR CELLULAR)(3N)(UNIT? OR DE-
             VICE? ? OR APPARATUS OR TERMINAL OR PHONE? OR TELEPHONE?)
S2      37546   PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE
              OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD)()(COMPUTE-
             R? OR DEVICE?) OR PALM(2N)PILOT
S3        525   CELLPHONE? OR POCKETPC
S4         20   INQUIRY()(SCAN OR SCANS OR SCANNING)
S5       2942   (PAGE OR PAGING) AND (SCAN OR SCANS OR SCANNING)
S6     268477   ADDRESS? OR IAC OR DAC OR DEVICE()ACCESS()CODE?? OR INQUIR-
             Y()ACCESS()CODE? OR ACCESS()CODE??
S7      19505   (SEEK? OR SEARCH? OR LOOK? OR TRACK? OR HUNT? OR DISCOVER?)
              AND S6
S8         58   PEER(1N)PEER AND (S1 OR S2) AND CONNECT?
S9       3315   BLUETOOTH
S10         5   AU=(HILLYARD, J? OR HILLYARD J?)
S11    323291   IC=H04B?
S12         5   S4 AND S5
S13        10   S10 OR S12
S14        10   IDPAT (sorted in duplicate/non-duplicate order)
S15        10   IDPAT (primary/non-duplicate records only)
S16         5   S15 AND S11
S17         4   PERFORM? AND S4 AND (PAGE OR PAGING)
S18         0   S17 NOT (S10 OR S12)
S19         5   S4 AND (PAGE OR PAGING)
S20         0   S19 NOT (S10 OR S12)
```

16/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

016106769 **Image available**
WPI Acc No: 2004-264645/200425
Method for authenticating bluetooth device having voice recognition function
Patent Assignee: BLUECHINETWORK CO LTD (BLUE-N)
Inventor: HA D S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 2003092313	A	20031206	KR 200229944	A	20020529	200425	B

Priority Applications (No Type Date): KR 200229944 A 20020529
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2003092313	A		1	H04B-007/00	

Abstract (Basic):
... 30). The Bluetooth device receives the packet according to a predetermined sequence, and performs an **inquiry scan** for searching whether inquiring Bluetooth devices exist among peripheral Bluetooth devices(40). The Bluetooth device recognizes an address of the headset(50). A **page** process is performed for connecting between the Bluetooth devices(60). If the voice is inputted...
International Patent Class (Main): **H04B-007/00**

16/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

016106768 **Image available**
WPI Acc No: 2004-264644/200425
Method for authenticating bluetooth device
Patent Assignee: BLUECHINETWORK CO LTD (BLUE-N)
Inventor: HA D S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
KR 2003092312	A	20031206	KR 200229943	A	20020529	200425	B

Priority Applications (No Type Date): KR 200229943 A 20020529
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2003092312	A		1	H04B-007/00	

Abstract (Basic):
... 20). The Bluetooth device receives the packet according to a predetermined sequence, and performs an **inquiry scan** for searching whether inquiring Bluetooth devices exist among peripheral Bluetooth devices(30). The Bluetooth device recognizes an address of the headset(40). A **page** process is performed for connecting between the Bluetooth devices(50...
International Patent Class (Main): **H04B-007/00**

16/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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015609446 **Image available**
WPI Acc No: 2003-671603/200363
XRPX Acc No: N03-536215
Radio frequency access point bandwidth maximizing method, involves inquiry scanning **with point slave device to search packets from mobile devices, and passing control to master device upon receiving** paging **packet**
Patent Assignee: NOKIA CORP (OYNO); NOKIA INC (OYNO)
Inventor: HEINONEN T; LAITINEN T M
Number of Countries: 101 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200367954	A2	20030821	WO 2003IB446	A	20030211	200363	B
AU 2003245719	A1	20030904	AU 2003245719	A	20030211	200428	

Priority Applications (No Type Date): US 200272969 A 20020212
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200367954	A2	E	48	H04B-000/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NL OA PT SD SE SI SK SL SZ TR TZ UG ZM ZW

AU 2003245719 A1 H04B-000/00 Based on patent WO 200367954
Radio frequency access point bandwidth maximizing method, involves inquiry scanning **with point slave device to search packets from mobile devices, and passing control to master device upon receiving** paging **packet**

Abstract (Basic):
... The method involves transmitting inquiry and **paging** packets from an access point master device and establishing connections with mobile slave devices. The...

...master devices. A control is passed to the access point master device upon receiving a **paging** packet from the mobile device.
...Title Terms: **SCAN** ;
International Patent Class (Main): **H04B-000/00**

16/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2004 Thomson Derwent. All rts. reserv.

015301582 **Image available**
WPI Acc No: 2003-362516/200334
XRPX Acc No: N03-289551
Connection establishment method for wireless device, involves performing inquiry scan at random interval in response to inquiry, to establish connection automatically using device address
Patent Assignee: HILLYARD J (HILL-I)
Inventor: **HILLYARD J**
Number of Countries: 001 Number of Patents: 001

Patent Family:
Patent No Kind Date Applicat No Kind Date Week
US 20030027526 A1 20030206 US 2001924306 A 20010806 200334 B

Priority Applications (No Type Date): US 2001924306 A 20010806
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
US 20030027526 A1 15 H04B-005/00
Inventor: **HILLYARD J**
International Patent Class (Main): **H04B-005/00**

16/3,K/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014634100 **Image available**
WPI Acc No: 2002-454804/200248
XRPX Acc No: N02-358658
Network access point with auxiliary transceiver e.g. for Bluetooth technology in NAP, has auxiliary transceivers provided in Bluetooth network access point
Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF); RUNE J (RUNE-I)
Inventor: RUNE J
Number of Countries: 097 Number of Patents: 003
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
WO 200239674 A1 20020516 WO 2001SE2415 A 20011102 200248 B
AU 200212911 A 20020521 AU 200212911 A 20011102 200260
US 20030060222 A1 20030327 US 2001961246 A 20010925 200325

Priority Applications (No Type Date): US 2001961246 A 20010925; US 2000247028 P 20001108
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
WO 200239674 A1 E 32 H04L-012/28
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW
AU 200212911 A H04L-012/28 Based on patent WO 200239674
US 20030060222 A1 H04B-007/00

Abstract (Basic):
... technology to be performed in an efficient manner. The auxiliary transceivers perform the tasks of **page scan** , including connection establishment, an **inquiry scan** , including inquiry response.
International Patent Class (Main): **H04B-007/00** ...
?

File 9:Business & Industry(R) Jul/1994-2004/Aug 10
(c) 2004 The Gale Group
File 15:ABI/Inform(R) 1971-2004/Aug 10
(c) 2004 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2004/Aug 11
(c) 2004 The Gale Group
File 20:Dialog Global Reporter 1997-2004/Aug 11
(c) 2004 The Dialog Corp.
File 47:Gale Group Magazine DB(TM) 1959-2004/Aug 11
(c) 2004 The Gale group
File 75:TGG Management Contents(R) 86-2004/Aug W1
(c) 2004 The Gale Group
File 80:TGG Aerospace/Def.Mkts(R) 1986-2004/Aug 11
(c) 2004 The Gale Group
File 88:Gale Group Business A.R.T.S. 1976-2004/Aug 10
(c) 2004 The Gale Group
File 98:General Sci Abs/Full-Text 1984-2004/Jul
(c) 2004 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media
File 141:Readers Guide 1983-2004/Jul
(c) 2004 The HW Wilson Co
File 148:Gale Group Trade & Industry DB 1976-2004/Aug 11
(c)2004 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2004/Aug 11
(c) 2004 The Gale Group
File 264:DIALOG Defense Newsletters 1989-2004/Aug 11
(c) 2004 The Dialog Corp.
File 484:Periodical Abs Plustext 1986-2004/Jul W4
(c) 2004 ProQuest
File 553:Wilson Bus. Abs. FullText 1982-2004/Jul
(c) 2004 The HW Wilson Co
File 570:Gale Group MARS(R) 1984-2004/Aug 11
(c) 2004 The Gale Group
File 608:KR/T Bus.News. 1992-2004/Aug 11
(c)2004 Knight Ridder/Tribune Bus News
File 620:EIU:Viewswire 2004/Aug 09
(c) 2004 Economist Intelligence Unit
File 613:PR Newswire 1999-2004/Aug 10
(c) 2004 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2004/Aug 11
(c) 2004 The Gale Group
File 623:Business Week 1985-2004/Aug 10
(c) 2004 The McGraw-Hill Companies Inc
File 624:McGraw-Hill Publications 1985-2004/Aug 10
(c) 2004 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2004/Aug 10
(c) 2004 San Jose Mercury News
File 635:Business Dateline(R) 1985-2004/Aug 10
(c) 2004 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2004/Aug 11
(c) 2004 The Gale Group
File 647:CMP Computer Fulltext 1988-2004/Aug W1
(c) 2004 CMP Media, LLC
File 696:DIALOG Telecom. Newsletters 1995-2004/Aug 10
(c) 2004 The Dialog Corp.
File 674:Computer News Fulltext 1989-2004/Jul W4
(c) 2004 IDG Communications
File 810:Business Wire 1986-1999/Feb 28

Set	Items	Description
S1	1609198	(MOBILE OR REMOTE OR WIRELESS OR CELLULAR)(3N)(UNIT? OR DEVICE? ? OR APPARATUS OR TERMINAL OR PHONE? OR TELEPHONE?)
S2	495697	PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD)()(COMPUTER? OR DEVICE?) OR PALM(2N)PILOT
S3	61392	CELLPHONE? OR POCKETPC
S4	73	INQUIRY(3N)(SCAN OR SCANS OR SCANNING)
S5	6267	(PAGE OR PAGING)(3N)(SCAN OR SCANS OR SCANNING)
S6	5840074	ADDRESS? OR IAC OR DAC OR DEVICE()ACCESS()CODE?? OR INQUIRY()ACCESS()CODE? OR ACCESS()CODE??
S7	70901	(SEEK? OR SEARCH? OR LOOK? OR TRACK? OR HUNT? OR DISCOVER?)(3N)S6
S8	133	PEER(1N)PEER(3N)(S1 OR S2)(5N)CONNECT?
S9	0	BLUETOOTH (JANUARY 2003)
S10	0	AU=(HILLYARD, J? OR HILLYARD J?)
S11	1139	WIDCOMM
S12	452	S11(S)(S1 OR S2 OR S3)
S13	0	S12(S)S4(S)S5
S14	4	S12(S)(S4 OR S5 OR S6 OR S7)
S15	4	RD S14 (unique items)
S16	11	S4(S)S5
S17	1	S16(S)(S1 OR S2 OR S3)
S18	1	S6(S)S8
S19	1	S18 NOT (S17 OR S14)
S20	0	S16(S)S7
S21	0	S16(S)S6

15/3,K/1 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

37181082
Q4 2004 Extended Systems Earnings Conference Call - Final
FAIR DISCLOSURE WIRE
July 27, 2004
JOURNAL CODE: WFDW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 3823

... mobile device is a major inhibitor to organization-wide rollouts. We believe that Mobile Secure **addresses** this problem and we're very excited about the future of this product offering. In next generation team of OneBridge products. These products continue to **address** customer needs such as new device support, advanced wireless capabilities and integration, which will continue...

... Software business. We have seen growing activity with potential Bluetooth customers. The recent acquisition of **Widcomm** by Broadcom is driving this interest because other chip manufacturers who compete against Broadcom are...

15/3,K/2 (Item 2 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter
(c) 2004 The Dialog Corp. All rts. reserv.

16124725 (USE FORMAT 7 OR 9 FOR FULLTEXT)
(PR) Bluetooth Emergence Explained at ABI Conference
PR NEWSWIRE
April 11, 2001
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 430

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... Silicon Radio, Silicon Wave, Dell Computer Corporation, NewLogic, embedded wireless devices, KPMG Consulting, In2M Corporation, **Widcomm** , GigaAnt, ZiLOG, Mobilian Corporation and Siemens. Issues that will be **addressed** include: -- The current status of Bluetooth technology -- Bluetooth's evolution via specification 2.0 into...

15/3,K/3 (Item 1 from file: 613)
DIALOG(R)File 613:PR Newswire
(c) 2004 PR Newswire Association Inc. All rts. reserv.

00687664 20011210SFM056 (USE FORMAT 7 FOR FULLTEXT)
National Semiconductor Launches Bluetooth Stack Partner
PR Newswire
Monday, December 10, 2001 09:02 EST
JOURNAL CODE: PR LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
DOCUMENT TYPE: NEWSWIRE
WORD COUNT: 552

TEXT:
...electronic
devices quickly and easily without cables to share information within close range. National named **WIDCOMM** Inc., a San Diego-based supplier of

Bluetooth
wireless solutions, as the first member of...

...used to implement
various parts of the Bluetooth communications protocol. Specifically, National's program will **address** the software that typically executes on the
host processor of a system, such as a **PDA** or PC, to which the Bluetooth hardware is attached.
"We are happy to join National...

...accelerate the deployment of Bluetooth wireless
connectivity products," said Ron Wong, director, product marketing at **WIDCOMM** .

About National's Bluetooth Stack Partner Program
National is forming Bluetooth Stack partnerships with companies...

15/3,K/4 (Item 1 from file: 674)
DIALOG(R)File 674:Computer News Fulltext

100522
Adventures in Bluetooth
Our editor discovers no wires doesn't mean no new hassles.
Byline: KEITH SHAW
Journal: Network World Page Number: 25
Publication Date: April 22, 2002
Word Count: 970 Line Count: 86

Text:
... an integrated 802.11b wireless antenna. *Compaq's H3870 iPaq Pocket PC for connecting a **PDA** . The device includes an embedded Bluetooth module. * **Widcomm** 's BlueGate 2100 access point for connecting Bluetooth devices to the Internet. The device includes...

... 995c Laserjet printer, which contains an embedded Bluetooth module. We didn't test Bluetooth-enabled **mobile phones** , but travelers might find them useful. Connecting a PC via Bluetooth to a **mobile phone** that can dial out on a next-generation wireless network will be a heavily used...

... PC. Because Compaq's Bluetooth Manager already was on the device, activating Bluetooth on the **PDA** was a simple matter of clicking a menu item called "Turn radio on." Installing the...

...do. When you're connecting, for example, a PC to PC, or a PC to **PDA** , you can share files or exchange "business cards," similar to beaming your contact information onto a **PDA** . More specific devices (such as the access points and printers) contain "profiles" that let you...

... will be comfortable installing a Bluetooth PC Card and any accessory that connects to a **PDA** . But for connections to a Bluetooth access point or a printer, the IT department will...

...the device into our Ethernet connection, locate the access point's media access control (MAC) **address** (which in this case was affixed to the access point but required removal of the plastic case), and input the **address** on a different networked computer to find its IP **address** . We had to install the software on the notebook so it could discover the access

...

...level of technical installation, they're the minority. Moreover, when it comes to tweaking IP **address** and MAC **addresses** , many IT departments want to handle it themselves to avoid trouble down the road. Bluetooth...
?

17/3,K/1 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)

4379270 Supplier Number: 113888549 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Bridging the gap: extending Bluetooth to ultra-low-powered equipment: a new wireless technology extends Bluetooth networks where both ultra-low-power operation and long range are essential.
(Intelligent Systems)
Sensors, v 21, n 2, p 20
February 2004
DOCUMENT TYPE: Journal ISSN: 0746-9462 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 2584

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...is either unrealistic or too stringent. When remotely reading an end point (slave) with a **handheld computer** (master), radio data are collected only when the operator stays within the radio coverage range. Therefore, because the application must be autonomous, the end point cannot switch to **Page / Inquiry scan** mode (that is, to modes characterized by high current consumption) once the link is complete...
?

19/3,K/1 (Item 1 from file: 20)
DIALOG(R)File 20:Dialog Global Reporter

21353744
Colligo Networks Licenses Portable Collaboration Applications to Palm, Inc.
CANADA NEWSWIRE
February 20, 2002
JOURNAL CODE: WCNW LANGUAGE: English RECORD TYPE: FULLTEXT
WORD COUNT: 751

...people to carry and access their most critical information wherever they go. Palm(TM) handhelds **address** the needs of individuals, enterprises and educational institutions by offering the foundation for thousands of...
?

```
File 348:EUROPEAN PATENTS 1978-2004/Aug W01
         (c) 2004 European Patent Office
File 349:PCT FULLTEXT 1979-2002/UB=20040805,UT=20040729
         (c) 2004 WIPO/Univentio

Set     Items   Description
S1     101795   (MOBILE OR REMOTE OR WIRELESS OR CELLULAR)(3N)(UNIT? OR DE-
             VICE? ? OR APPARATUS OR TERMINAL OR PHONE? OR TELEPHONE?)
S2      38300   PDA OR PERSONAL()DIGITAL()ASSISTANT? OR (POCKET OR PORTABLE
              OR PALM()TOP OR PALMTOP OR HAND()HELD OR HANDHELD)()(COMPUTE-
             R? OR DEVICE?) OR PALM(2N)PILOT
S3        566   CELLPHONE? OR POCKETPC
S4        131   INQUIRY(3N)(SCAN OR SCANS OR SCANNING)
S5       1333   (PAGE OR PAGING)(3N)(SCAN OR SCANS OR SCANNING)
S6     289490   ADDRESS? OR IAC OR DAC OR DEVICE()ACCESS()CODE?? OR INQUIR-
             Y()ACCESS()CODE? OR ACCESS()CODE??
S7      11507   (SEEK? OR SEARCH? OR LOOK? OR TRACK? OR HUNT? OR DISCOVER?-
             )(3N)S6
S8          6   PEER(1N)PEER(3N)(S1 OR S2)(5N)CONNECT?
S9          0   BLUETOOTH   (JANUARY 2003)
S10         4   AU=(HILLYARD, J? OR HILLYARD J?)
S11        15   PERFORM?(5N)S4(5N)(PAGE OR PAGING)
S12     40185   IC=H04B?
S13        54   S4(S)S5
S14        19   S13(S)(S1 OR S2 OR S3)
S15         7   S14 AND S12
S16         4   S10 NOT S15
S17         0   S16 AND S12
S18         0   S7(S)S8
S19         0   S13(S)S7
S20        13   S11 NOT S15
S21         3   S11 AND S12
```

15/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01403691
COMMUNICATION UNIT AND ITS CONTROLLING METHOD
KOMMUNIKATIONSEINHEIT UND ZUGEHORIGEN STEUERUNGSVERFAHREN
UNITE DE COMMUNICATION ET SON PROCEDE DE REGULATION
PATENT ASSIGNEE:
Kabushiki Kaisha Toshiba, (2077102), 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, (JP), (Applicant designated States: all)
INVENTOR:
TADA, Masahiro, 2-103,Toshiba Kazoku Apartment, 2016, Shinmachi 9-chome, Ome-shi, Tokyo 198-0024, (JP)
SAKO, Ikuo, 3-35, Hiyoshi-cho 4-chome, Kokubunji-shi, Tokyo 185-0032, (JP)
YATA, Koichi, 1497-67, Narabiyanagi, Hanno-shi, Saitama 357-0021, (JP)
LEGAL REPRESENTATIVE:
Henkel, Feiler, Hanzel (100401), Mohlstrasse 37, 81675 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1209877 A1 020529 (Basic)
WO 200205516 020117
APPLICATION (CC, No, Date): EP 2001943867 010628; WO 2001JP5570 010628
PRIORITY (CC, No, Date): JP 2000204623 000706
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: H04L-029/08; H04L-012/28; **H04B-007/26**
ABSTRACT WORD COUNT: 124
NOTE:
Figure number on first page: 0007

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200222	1411
SPEC A	(English)	200222	7428
Total word count - document A			8839
Total word count - document B			0
Total word count - documents A + B			8839

...INTERNATIONAL PATENT CLASS: **H04B-007/26**

...SPECIFICATION demand for connection establishment) based on the information collected from the responding terminals. Further, a **remote terminal** that is discovered by the source terminal performs an **Inquiry Scan** (waiting for station discovery) to answer the Inquiry message. Furthermore a **remote terminal** that is in a waiting state for a demand for connection establishment mode performs a **Page Scan** (waiting for a demand for connection establishment), to respond to the Page of the source...

15/3,K/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

01115741 **Image available**
BEACON CHANNEL FOR FREQUENCY HOPPING WIRELESS DEVICES
CANAL DE BALISAGE POUR DISPOSITIFS SANS FIL A SAUTS DE FREQUENCE
Patent Applicant/Assignee:
KONINKLIJKE PHILIPS ELECTRONICS N V, Groenewoudseweg 1, NL-5621 BA

Eindhoven, NL, NL (Residence), NL (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
FULTON Paul M, c/o Philips Intellectual Property & Standards, Cross Oak Lane, Redhill, Surrey RH1 5HA, GB, GB (Residence), GB (Nationality), (Designated only for: US)
OZERIN Izaskun, c/o Philips Intellectual Property & Standards, Cross Oak Lane, Redhill, Surrey RH1 5HA, GB, GB (Residence), ES (Nationality), (Designated only for: US)
DOOLEY Saul R, c/o Philips Intellectual Property & Standards, Cross Oak Lane, Redhill, Surrey RH1 5HA, GB, GB (Residence), GB (Nationality), (Designated only for: US)
Legal Representative:
WHITE Andrew (agent), Philips Intellectual Property & Standards, Cross Oak Lane, Redhill, Surrey RH1 5HA, GB,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200438938 A1 20040506 (WO 0438938)
Application: WO 2003IB4521 20031014 (PCT/WO IB03004521)
Priority Application: GB 200224753 20021024
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 6021

Main International Patent Class: **H04B-001/173**
Fulltext Availability:
Detailed Description

Detailed Description
... the procedure, an empty network of Access Points produces no traffic.

Power usage in the **mobile devices** has been kept to a level comparable with normal **page** and **inquiry scanning** by specifying a low duty cycle operation.

0 It is a more efficient procedure than...

15/3,K/3 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00987309 **Image available**
DUAL MODE BLUETOOTH/WIRELESS DEVICE WITH WAKE-UP TIMES OPTIMIZED FOR POWER CONTROL
DISPOSITIF BIMODE, BLUETOOTH ET RADIO, A STRUCTURE DE CONSERVATION D'ENERGIE
Patent Applicant/Assignee:
QUALCOMM INCORPORATED, 5775 Morehouse Drive, San Diego, CA 92121, US, US (Residence), US (Nationality)

Inventor(s):
LEE Wayne A, 675 Blinn Court, Los Altos, CA 94024, US,
PATTABIRAMAN Ganesh, 119 Quillen Court, Apt 6H, Stanford, CA 94305, US,
WENDOLL Thomas E, 2265 S. Bascom Avenue, #32, Campbell, CA 95008, US,
Legal Representative:
WADSWORTH Philip R (et al) (agent), 5775 Morehouse Drive, San Diego, CA 92121, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200317596 A2-A3 20030227 (WO 0317596)
Application: WO 2002US25751 20020813 (PCT/WO US0225751)
Priority Application: US 2001930759 20010815; US 200277123 20020215
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 10759

Main International Patent Class: **H04B-001/16**
International Patent Class: **H04B-001/707** ...
Fulltext Availability:
Detailed Description

Detailed Description
... a Bluetooth module with wakeup processes for a wireless module in a dual mode Bluetooth/ **wireless mobile unit** , and particularly, so that any Bluetooth scanning wakeup processes do not undergo any scanning frequency...next Bluetooth planned wakeup time, the Bluetooth module takes certain synchronization actions. If in a **scan** mode such as page **scan** or **inquiry scan** , and the next change of the Bluetooth scanning frequency is scheduled to occur after the...perform their respective wakeup processes.

[1037] In an enhancement to the foregoing configuration of the **wireless mobile unit** 140, the processor 146 may be configured to advance the Bluetooth clock 158 (or take other action as needed to prevent **page / inquiry scanning** frequency from changing during the next **page / inquiry scanning** wakeup process). As illustrated, this is done before synchronizing the Bluetooth wakeup schedule to the...for a Bluetooth module with a planned wakeup process for a CDMA module in a **wireless mobile unit** , and particularly, in such a way that any Bluetooth **page / inquiry scanning** wakeup processes do not undergo any scanning frequency changes.

[1045] Although the present invention has...time to perform their wakeup processes, resulting in a significant reduction in power consumption by **wireless . mobile unit** 140. Also, by advancing the Bluetooth clock 158 to ensure that rollover occurs at 278 and not during 280, further power is conserved because the **page / inquiry scanning** frequency will

not be able to change during 280.

[1057] Bluetooth wakeup process 286 ...144 perform their wakeup processes at the same time, significantly reducing the power consumption of **wireless mobile unit** 140 since the two modules are powered up
simultaneously. Advantageously, in the case of **page scan** mode or **inquiry scan** mode, step 319 was performed previously in order to reschedule clock rollover to occur at...

15/3,K/4 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2004 WIPO/Univentio. All rts. reserv.

00955211 **Image available**
CONNECTION INITIATION IN WIRELESS NETWORKS INCLUDING LOAD BALANCING
ETABLISSEMENT D'UNE CONNEXION DANS DES RESEAUX SANS FIL AVEC EQUILIBRAGE DES CHARGES
Patent Applicant/Assignee:
STRIX SYSTEMS INC, Suite 150, 310 North Westlake Boulevard, Westlake Village, CA 91362, US, US (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
JOLLOTA James M, 317 Ulysses Street, Simi Valley, CA 93065, US, US (Residence), US (Nationality), (Designated only for: US)
KUIKEN Matthew, Apt. D, 535 North Oaktree Lane, Thousand Oaks, CA 91360, US, US (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
DALEY-WATSON Christopher (et al) (agent), Perkins Coie LLP, Patent-SEA, P.O. Box 1247, Seattle, WA 98111-1247, US,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200289356 A1 20021107 (WO 0289356)
Application: WO 2002US13710 20020502 (PCT/WO US0213710)
Priority Application: US 2001288270 20010502
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 5395

Main International Patent Class: **H04B-007/00**
Fulltext Availability:
Detailed Description

Detailed Description
... Bluetooth standard, but many wireless communication systems are applicable.
Using standard Bluetooth Inquiry, when a **mobile device** or **mobile unit** (MU) enters the ...link is initiated using any one of four

procedures described in the Bluetooth core specification (**inquiry** , Inquiry- **scan** , **Page** , and **Page - scan**). The MU attempts to locate devices that feature services it requires under the wireless link... Destination units that receive the inquiry packets, in this case BSUs, should be in an **inquiry** **scan** state to receive the inquiry packets.

The destination units then enter the inquiry response state...

15/3,K/5 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00891668 **Image available**
WIRELESS COMMUNICATIONS
COMMUNICATIONS SANS FIL
Patent Applicant/Assignee:
TELSTRA NEW WAVE PTY LTD, ACN 070 562 935, 242 Exhibition Street, Melbourne, Victoria 3000, AU, AU (Residence), AU (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
MICHNOWICZ Simon Gregory, 4/13 Iris Road, Glen Iris, Victoria 3146, AU, AU (Residence), AU (Nationality), (Designated only for: US)
Legal Representative:
WEBBER David Brian (et al) (agent), Davies Collison Cave, 1 Little Collins Street, Melbourne, Victoria 3000, AU,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200225838 A1 20020328 (WO 0225838)
Application: WO 2001AU1189 20010921 (PCT/WO AU0101189)
Priority Application: AU 2000311 20000922
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 4052

Main International Patent Class: **H04B-007/26**
Fulltext Availability:
Detailed Description
Claims

Detailed Description
... of establishing a piconet between devices.

Recent advances in technology are encouraging the adoption of **wireless** communications **devices** for a wide variety of applications. In particular, a short-range radio frequency (RF) technology known as Bluetooth holds much promise for enabling unassisted communication between low cost, **portable** **devices** . Bluetooth devices communicate in a master-slave fashion to form a localised network called a...

...two step method. First, to find Bluetooth devices within range, a master device tiansmits an **inquiry scan** using a broadcast address. In response to the inquiry, each listening device within range transmits...

...IO seconds or longer. Once the master has a slave address, it can perform a **page scan** of a slave device, whereby the master transmits its address and clock offset to the...

...network, including.

at least one fixed Bluetooth device having an address; and.

at least one **mobile device** storing said address and executing a **page scan** on the basis of the address to establish a link with the fixed device without executing an **inquiry scan** .

The address or addresses stored in the mobile device may be reusable, such that page...

...network, including.

at least one fixed Bluetooth device having an address; and
at least one **mobile device** having storage means for storing said address without transmitting an **inquiry scan** , and transmitting means for transmitting a **page scan** on the basis of the stored address to establish a link with the fixed device...

...including.

at least one fixed Bluetooth device having a first address; and
at least one **mobile device** having storage means for storing at least said first address without transmitting an **inquiry scan** , and transmitting means for transmitting respective **page scans** on the basis of the at least said first address to establish a link with...with reference to the accompanying drawings, wherein.

Figure I is a schematic diagram of the **inquiry scan** phase of a Bluetooth piconet; Figure 2 is a schematic diagram of the **page scan** phase of a Bluetooth piconet; Figure 3 is a block diagram of a preferred embodiment...

...diagram of a preferred embodiment of a wireless network using the signalling channel of a **cellular** network.

Bluetooth **devices** are well known and each Bluetooth device normally includes a number 1 5 of hardware...are within range of each other for Bluetooth communications.

The approximate physical location of the **mobile devices** 40, 42 is known to the cellular network 46 via the network's usual localisation...

...is sent via the signalling channel to the first device 40, causing it to perform **page scans** to the second device 42 and the third device 44. A secure piconet has now been remotely and rapidly established between selected devices, without the need to perform **inquiry scans** . Once a Bluetooth connection is made, the telecommunications provider can then automatically initiate programs to be executed on a **mobile device** , according to preferences previously made by the user of the **mobile device** .

In comparison to the first embodiment, the use of signalling channels to manage connections avoids...

Claim
... address of said at least one other device in said first device without - executing an **inquiry scan** ; and
executing respective **page scans** from said first device using said at least one address to establish a piconet with...

...claimed in any one of claims 2, 4, 5, 6 and 7, wherein said first **device** is a **mobile device** , and said second device is a fixed device. 1 0. A method as claimed in...

...I 0 at least one fixed Bluetooth device having an address; and at least one **mobile device** having storage means for storing said address without transmitting an **inquiry scan** , and transmitting means for transmitting a **page scan** on the basis of the stored address to establish a link with the fixed device...

...including:
at least one fixed Bluetooth device having a first address; and at least one **mobile device** having storage means for storing at least said first address without transmitting an **inquiry scan** , and transmitting means for transmitting respective **page scans** on the basis of the at least said first address to establish a link with...

...network, including
at least one fixed Bluetooth device having a first address; at least one **mobile device** having storage means, transmitting means, receiving means
and control means;
and wherein the storage means...

...address, and the control means is operable to cause the transmitting means to transmit a **page**
scan for each address stored in the storage means;
- 13 and wherein the control means is...

...fixed device when the receiving means receives from said fixed device a response to a **page scan** for said first address.

19 A Bluetooth network as claimed in any one of claims...

15/3,K/6 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00874771 **Image available**
A BRIDGING APPARATUS FOR INTERCONNECTING A WIRELESS PAN AND A WIRELESS LAN
APPAREIL DE PONTAGE DESTINE A L'INTERCONNEXION D'UN RESEAU PERSONNEL SANS FIL ET D'UN RESEAU LOCAL SANS FIL
Patent Applicant/Assignee:
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Legal Representative:
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Patent and Priority Information (Country, Number, Date):
Patent: WO 200208857 A2-A3 20020131 (WO 0208857)
Application: WO 2001US23017 20010720 (PCT/WO US0123017)
Priority Application: US 2000619923 20000720
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 5613

Main International Patent Class: **H04B-003/30**
Fulltext Availability:
Detailed Description

Detailed Description
... Vehicle Module detect signal strength loss, and disconnect, The Vehicle Module goes back to the **Page scan** mode, and the bridge updates its port map and advises the bridge of this event...

...Establish TCP/IP connection Start Server Applications module with DHCP server Initialize Bluetooth device Start **Page Scan** Initialize Bluetooth Piconet table node / IP address table Listen on Bridge dedicated Begin Bluetooth Inquiry...

...Module dedicated ports (x7 for each Bridge) Vehicle Enters Bluetooth module response Receives response to **Inquiry** Zone to **inquiry scan** from Vehicle Module Advises Server of Vehicle Module Bluetooth address on appropriate port number Server...
...Vehicle Enters (As Vehicle Module is not 12 EVENT VEHICLE MODULE BRH)GE SERVER Overlapping **page scanning** , it does not Zone detect the new zone) Server Closes Bridge detects Server notifies Vehicle...

...connection Bridge advises Server of until timeout

communications closure
Vehicle Module does not Bridge resumes **inquiry**
reenter **page** **scan** mode **scanning** Server updates Bluetooth
-until timeout module mapping (setting
Vehicle Module to inactive)
Server Closes Vehicle...

...Bridge updates table fueling in progress
Vehicle Module enters Bridge advises Server of Server waits
page **scan** mode Vehicle Module inactive "Vehicle Reenter" timeout,
and then terminates delivery
if fueling was in...

...rate, data format, and other transport protocol negotiation settings to
the Bluetooth-enabled vehicle or **hand** **held** **device** . These settings
include any (CRC
13

15/3,K/7 **(Item 6 from file: 349)**
DIALOG(R)File 349:PCT FULLTEXT

00573384 **Image available**
APPARATUS AND METHOD FOR WIRELESS COMMUNICATIONS
APPAREIL ET PROCEDE DESTINES AUX TELECOMMUNICATIONS SANS FIL
Patent Applicant/Assignee:
SILICON WAVE INC,
Inventor(s):
BROWN Stephen J,
ESTRADA Andrew X,
BOURK Terrance R,
NORSWORTHY Steven R,
MURPHY Patrick J,
HULL Christopher D,
CHANG Glenn,
LANE Mark V,
GRILO Jorge A,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200036757 A2 20000622 (WO 0036757)
Application: WO 99US30280 19991217 (PCT/WO US9930280)
Priority Application: US 98216040 19981218; US 99305330 19990504
Designated States:
(Protection type is "patent" unless otherwise stated - for applications
prior to 2004)
AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA
UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU
TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG
CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 22555

Main International Patent Class: **H04B-001/00**
Fulltext Availability:
Claims

Claim
... if in transmit mode)
30/45

Standby or Connection state
(for duration Tp.,,
No hit
Page scan substate
Hit Timeout
Slave response substate Timeout port Crroq2
@F
Hit
Connection state Standby state...

...4
F-T
32/45
Standby or Connection state
(for duration Ti,,quiy
No hit
Inquiry scan substate
Hit Timeout
quiry@ response substat Report errojal-6
@ln e Timeout jwp@
I
Hit...

...45
'*3 @D Standby or connection state
No Ihit
I
,a=' =O.:: Periodic transactions with **remote unit** (s)
I
Hit
Fic,, @aqj E
35/45
Standby state I
@
A- (for duration Twff...
?

21/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01576944
INFORMATION PROCESSING APPARATUS AND METHOD, AND RECORDING MEDIUM
INFORMATIONSVERARBEITUNGSVORRICHTUNG UND VERFAHREN UND AUFZEICHNUNGSMEDIUM
APPAREIL ET PROCEDE DE TRAITEMENT D'INFORMATIONS ET SUPPORT D'ENREGISTREMENT ASSOCIE

PATENT ASSIGNEE:
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AYATSUKA, Yuji, SONY COMPUTER SCIENCE LAB. INC., 3-14-13, Higashi-Gotanda, Shinagawa-ku, Tokyo 141-0022, (JP)
LEGAL REPRESENTATIVE:
DeVile, Jonathan Mark, Dr. et al (91151), D. Young & Co 21 New Fetter Lane, London EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 1422847 A1 040526 (Basic)
WO 2003021825 030313
APPLICATION (CC, No, Date): EP 2002765362 020828; WO 2002JP8643 020828
PRIORITY (CC, No, Date): JP 2001257308 010828
DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; SK; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: **H04B-017/00** ; **H04B-007/26**
ABSTRACT WORD COUNT: 211
NOTE:
Figure number on first page: 0002

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200422	1193
SPEC A	(English)	200422	11062
Total word count - document A			12255
Total word count - document B			0
Total word count - documents A + B			12255

INTERNATIONAL PATENT CLASS: **H04B-017/00** ...

... **H04B-007/26**

...SPECIFICATION 547.
Meanwhile, in step S211, the communication unit 28 of the personal computer 1 repeatedly **performs inquiry scanning** and **paging scanning** , and waits for an inquiry or **paging** request from another terminal.
When the user places the PDA 501 in proximity with the...

21/3,K/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00987309 **Image available**

DUAL MODE BLUETOOTH/WIRELESS DEVICE WITH WAKE-UP TIMES OPTIMIZED FOR POWER CONTROL

DISPOSITIF BIMODE, BLUETOOTH ET RADIO, A STRUCTURE DE CONSERVATION D'ENERGIE

Patent Applicant/Assignee:
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Inventor(s):
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WENDOLL Thomas E, 2265 S. Bascom Avenue, #32, Campbell, CA 95008, US,
Legal Representative:
WADSWORTH Philip R (et al) (agent), 5775 Morehouse Drive, San Diego, CA 92121, US,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200317596 A2-A3 20030227 (WO 0317596)
Application: WO 2002US25751 20020813 (PCT/WO US0225751)
Priority Application: US 2001930759 20010815; US 200277123 20020215
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 10759

Main International Patent Class: **H04B-001/16**
International Patent Class: **H04B-001/707** ...
Fulltext Availability:
Detailed Description

Detailed Description
... corresponds to time. Namely, when the Bluetooth module is "on" (250, 256, 260) it is **performing** its Bluetooth sleep mode wakeup process, such as **page scan** , **inquiry scan** , hold, sniff, park, or other ... the illustrated embodiment, step 319 is only performed if appropriate. Namely, step 319 is only **performed** if the Bluetooth module 142 is in the **page scan** mode, **inquiry scan** mode, or another sleep mode in which communications with another Bluetooth device have not been...unit 140 since the two modules are powered up simultaneously. Advantageously, in the case of **page scan** mode or **inquiry scan** mode, step 319 was **performed** previously in order to reschedule clock rollover to occur at 278, and thus the processor...

21/3,K/3 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00573384 **Image available**
APPARATUS AND METHOD FOR WIRELESS COMMUNICATIONS
APPAREIL ET PROCEDE DESTINES AUX TELECOMMUNICATIONS SANS FIL
Patent Applicant/Assignee:
SILICON WAVE INC,
Inventor(s):
BROWN Stephen J,
ESTRADA Andrew X,
BOURK Terrance R,
NORSWORTHY Steven R,
MURPHY Patrick J,
HULL Christopher D,
CHANG Glenn,
LANE Mark V,
GRILO Jorge A,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200036757 A2 20000622 (WO 0036757)
Application: WO 99US30280 19991217 (PCT/WO US9930280)
Priority Application: US 98216040 19981218; US 99305330 19990504
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 22555

Main International Patent Class: **H04B-001/00**
Fulltext Availability:
Detailed Description

Detailed Description
... architecture I 100 is used to implement the Bluetooth system, the controller 1 5 1106 **performs** the steps of **Inquiry** , **Inquiry - Scan** , **Paging** , **Page - Scan** , connection establishment and the power saving active routines of Sniff and Park modes described in...
?